

CLAIMS

What is claimed is:

1. A computer cooler, comprising:
 - a cold plate to come into contact with a portable computer system to transfer heat away from the portable computer system; and
 - a cooling system to transfer heat from the cold plate to the environment surrounding the computer cooler when the portable computer system is in contact with the cold plate.
2. The computer cooler of claim 1, further comprising a first connector to mate to an external connector of the portable computer system when the portable computer system is in contact with the cold plate.
3. The computer cooler of claim 2, wherein the first connector passes signals of the external connector of the portable computer system to an internal device within the computer cooler.
4. The computer cooler of claim 2, wherein the first connector passes signals of the external connector of the portable computer system to an external device attached to the computer cooler.
5. The computer cooler of claim 4, further comprising a second connector that replicates the external connector of the portable computer system, and the external device is attached to the computer cooler through the second connector to pass signals of the external connector of the portable computer system to the external device.

6. The computer cooler of claim 1, wherein the cooling system is comprised of a compressor, an evaporator, a condenser and a refrigerant.

7. The computer cooler of claim 1, further comprising a controller to control the degree of transfer of heat from the cold plate to the environment surrounding the computer cooler.

8. The computer cooler of claim 1, wherein the portable computer system is comprised of a heat spreader to come into contact with the cold plate to transfer heat from at least one component within the portable computer system to the cold plate.

9. An apparatus, comprising:
a portable computer system with a heat spreader to transfer heat away from at least one component within the portable computer system; and
a computer cooler with a cold plate to come into contact with the heat spreader to transfer heat from the heat spreader to the environment surrounding the computer cooler.

10. The apparatus of claim 9, wherein the portable computer system further comprises an external connector, and the computer cooler further comprises a first connector to mate to the external connector of the portable computer system when the heat spreader is in contact with the cold plate.

11. The apparatus of claim 10, wherein the first connector passes signals of the external connector of the portable computer system to an internal device within the computer cooler.

12. The apparatus of claim 10, wherein the first connector passes signals of the external connector of the portable computer system to an external device attached to the computer cooler.

13. The apparatus of claim 12, wherein the computer cooler further comprises a second connector that replicates the external connector of the portable computer system, and the external device is attached to the computer cooler through the second connector to pass signals of the external connector of the portable computer system to the external device.

14. The apparatus of claim 9, wherein the computer cooler further comprises a compressor, an evaporator, a condenser and a refrigerant that cooperate to transfer heat from the cold plate to the environment surrounding the computer cooler.

15. The apparatus of claim 9, wherein the computer cooler further comprises a controller to control the degree of transfer of heat from the cold plate to the environment surrounding the computer cooler.

16. The apparatus of claim 9, wherein the portable computer system further comprises a heat pipe to transfer heat away from the at least one component within the portable computer system to the heat spreader.

17. A method, comprising:

coupling at least one component of a portable computer system to a heat spreader to transfer heat from the at least one component;

bringing the heat spreader into contact with a cold plate of a computer cooler to transfer heat from the heat spreader to the cold plate; and

using a cooling system within the computer cooler to transfer heat from the cold plate to the environment surrounding the computer cooler.

18. The method of claim 17, further comprising mating an external connector of the portable computer system with a first connector of the computer cooler.

19. The method of claim 18, wherein the first connector passes signals of the external connector of the portable computer system to an internal device within the computer cooler.

20. The method of claim 18, wherein the first connector passes signals of the external connector of the portable computer system to an external device attached to the computer cooler.

21. The method of claim 20, wherein the computer cooler further comprises a second connector that replicates the external connector of the portable computer system, and the external device is attached to the computer cooler through the second connector to pass signals of the external connector of the portable computer system to the external device.

22. The method of claim 17, wherein the cooling system comprises a compressor, an evaporator, a condenser and a refrigerant.

23. The method of claim 17, wherein the computer cooler further comprises a controller to control the degree of transfer of heat from the cold plate to the environment surrounding the computer cooler.

24. The method of claim 17, wherein the portable computer system further comprises a heat pipe to transfer heat away from the at least one component within the portable computer system to the heat spreader.

25. The method of claim 17, further comprising using a clock signal with the at least one component of the portable computer system where the clock signal is faster to a degree that requires the use of the computer cooler to aid in transferring heat from the at least one component that is generated as a result of using the faster clock signal.

26. The method of claim 17, further comprising enabling a feature of the at least one component of the portable computer system that requires the use of the computer cooler to aid in transferring heat from the at least one component that is generated as a result of enabling the feature.